SLEPTSOV.M.M., kandidat biologicheskikh nauk

Observations on the marine Tecticeps glober. Priroda 44 no.9:120-121

(MLRA 8:11)

S '55.

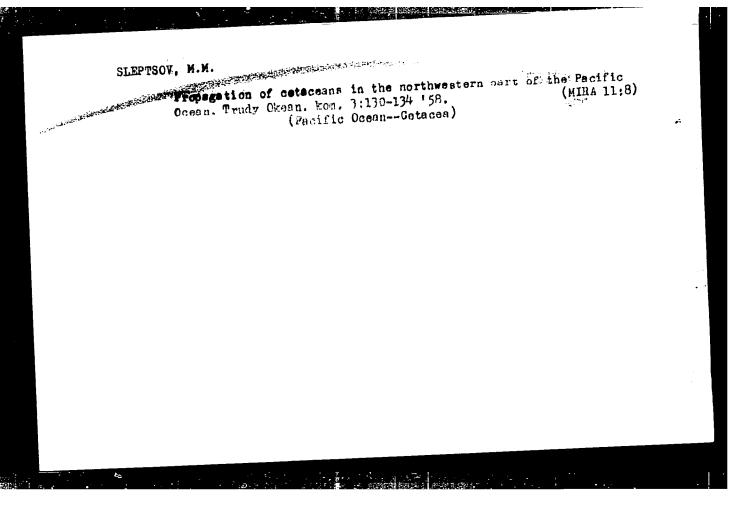
1. Institut okeenologii Akademii nauk SSSR

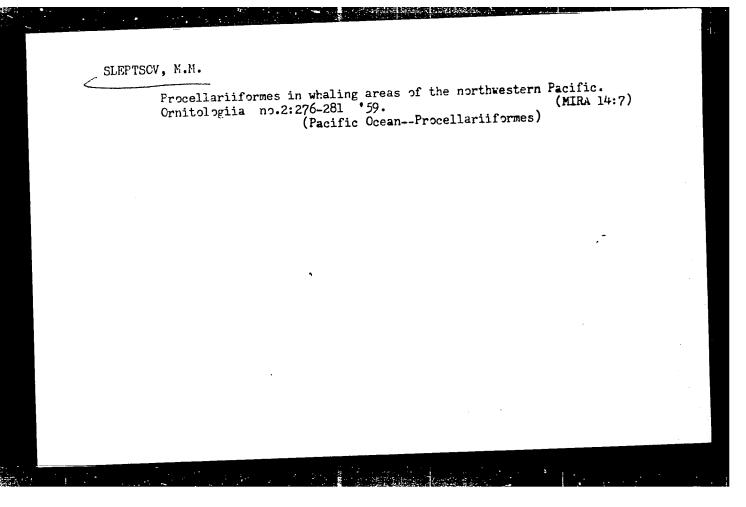
(Shellfish)

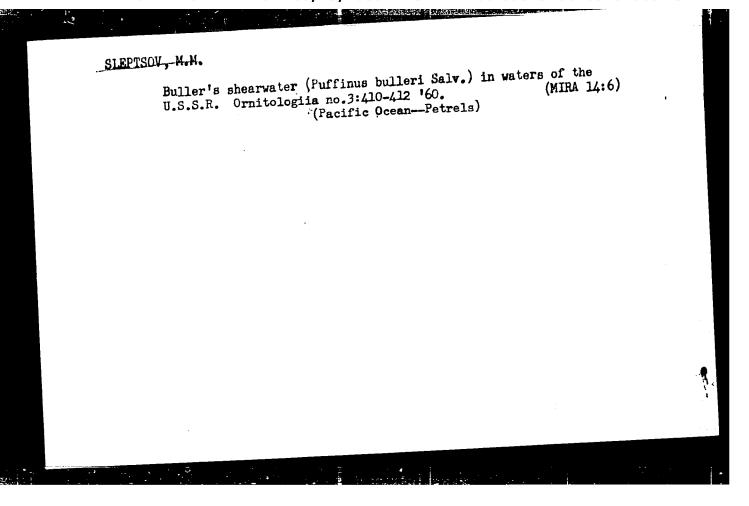
SLEPTSOV, M. M.,

"Distribution of Cetacenas in the Northwestern Fart of the Pacific," Oceanographic Research of the Northwestern Part of the Pacific Ocean, Moscow, Izd-vo AN USSR, 1958. (The article defines the territorial extent of the Pacific cetacean area, explains the zoogeography, and describes the main types of cetaceans of this area. A map is given.

COVERAGE: This collection articles reports are the results of observations made in the Pacific by the Institute of Oceanology of the Academy of Sciences, USSR. In 1949, the Institute launched a systematic five-year program of scientific exploration of certain hydrographic peculiarities of the Soviet Pacific area. The operations were carried out as a "Complex Oceanographic Expedition," using the motorboat Vityaz' as its base. The Expedition worked in collaboration with the Hydrographic Institute of the Soviet Navy (VMS), the Pacific Institute of Piscatology and Oceanography and some 40 other institutes of the Academy of Sciences. Between 1949 and 1954, 18 trips were made, covering about 130,000 miles. Among the subjects of direct concern were: meteorology, hydrology, oceanography, hydrochemistry, sedimentation, geography of the littoral, geology and contours of the sea bottoms, fauna plankton, microbiology, gravimetry. Twenty-eight authors contributed to the collection which consists of 27 articles.







SLEPTSOV, M.M. Variations in the abundance of whales in the Chukchi Sea in different years. Trudy Inst. morf. zhiv. no.34:54-64 :61. (MIRA 14:11)

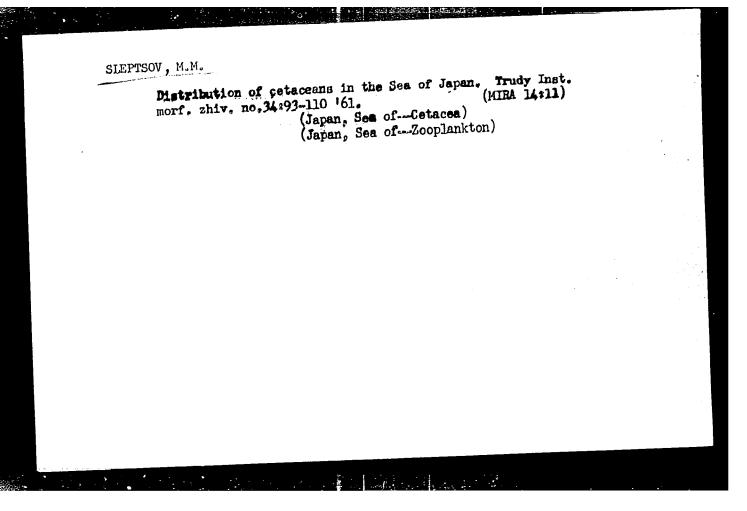
(Chukchi Sea-Whales)

SLEFTSOV, M.M.

Feeding areas of whales in the Bering Sea. Trudy Inst. morf.
(MIRA 14:11)

Zhiv. no.34:65-78 (61.
(Bering Sea.-Whales)

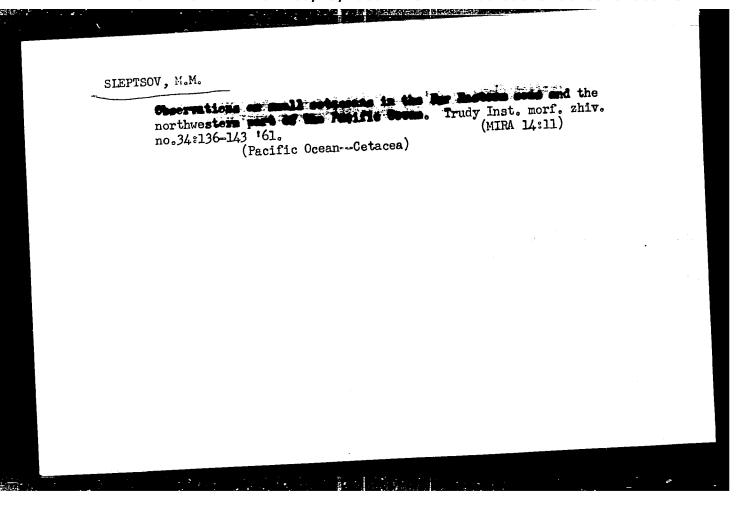
Distribution of Okhotsk.	11 u.c.,		TILLIAN AND AND AND AND AND AND AND AND AND A		
			••		
	Distribution of Okhotsk.	P MENATER II US.	. P. Michardy . II us.,	Distribution of feeding grounds and cetaceans in the Sea of Okhotsk. Trudy Inst. morf. zhiv. nc.34:79-92 '61. (MIRA 14:11) (Okhotsk, Sea of Cetacea) (Okhotsk, Sea of Cetacea) (Okhotsk, Sea of Cetacea)	A Manage II us,



SLEPTSOV, M.M.

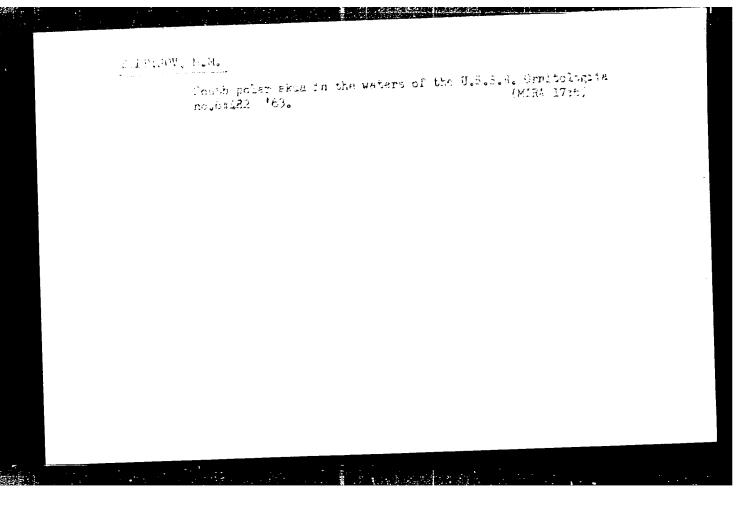
Conditions governing the existence of cetaceans in the mixing of the cold (Kurile-Kamchatka) and the warm (Kuroshio) currents. Trudy Inst. morf. zhiv. no.34:111-135 '61. (MIRA 14:11)

(Pacific ocean—Zooplankton) (Pacific ocean—Cetacea)



Results of weighing large and small cetaceans caught in the Far East. Trudy Inst. morf. zhiv. no.34:144-150 61.

(Pacific Ocean -- Cetacea)



VLOKH, N.P., kand. tekhn. nauk; SLEPTSOV, M.N., inzh.

Using the shield mining system in copper mines in the Urals. Gor.

(MIRA 17:11)

zhur. no.6:26-30 Je 164.

1. Institut gornogo dela, g. Sverdlovsk (for Vlokh). 2. Ural'skiy nauchno-issledovatel'skiy i proyektnyy institut mednoy promyshlennosti Sverdlovsk (for Sleptsov).

KHOKHLOV, P.L.; DUBROV, V.S.; SLEPTSOV, N.I.; SAYAPIN, Yu.V.

Analysis of cupola performance with various methods of water cooling. Lit.proisv. no.7836-37 Jl '62. (MIRA 1682) (Cupola furnaces—Cooling)

KHOKHLOV, P.L., inzh.; DUEROV, V.S., inzh.; SLEPTSOV, N.I., inzh.;
SAYAPIN, Yu.V.

Operation of water-cooler cupola furnaces. Stal' 22 no.3:286(MIRA 15:3)

(Cupola furnaces--Cooling)

SLEPTSOV, N.N., inzh.

Foremost freight service office. Zhel, dor.transp. 44 no.3:61 Mr '62.

1. Zaveduyushchiy tovarnoy kontoroy stantsii Borusoglebsk. (Borisoglebsk. Railroads - Freight)

SLEPTSOV, S.A., deputat Moskovskogo Soveta.

Supply more summer goods. Gor.khoz.Mosk. 34 no.6:36-37 Je '60.

1. Chlen Postoyannoy promyshlennoy komissii Moskovskogo Soveta.

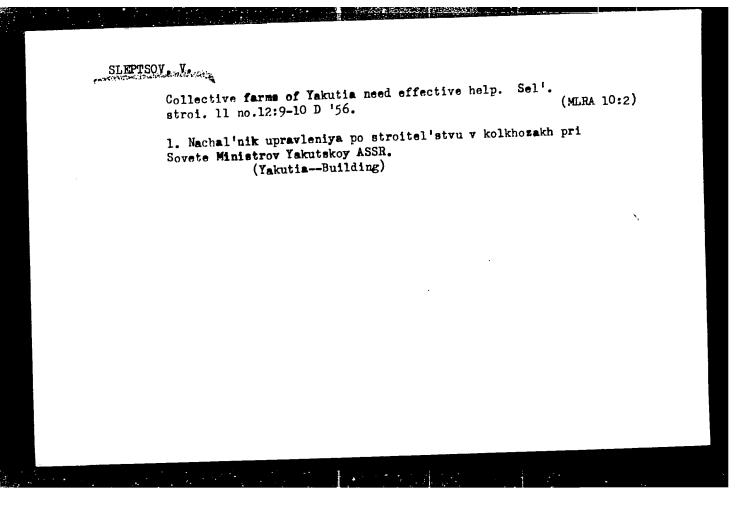
(Moscow-Retail trade)

ALEKSANDROV, S.V., kand.sel'skokhoz.nauk; BOGUSHEVSKIY, A.A., kand.tekhn.
nauk; VASHCHENKO, S.F., kand.sel'skokhoz.nauk; GERASIMOV, B.A.,
kand.sel'skokhoz.nauk; GROMOV, N.G. [deceased]; KORBUT, V.A.;
KUDREVICH, I.A.; MAMAYEV, M.G., kand.tekhn.nauk; NOVIKOV, A.P.;
OSNITSKAYA, Ye.A.; SIMANOVSKIY, A.Yu.; SLEPTSOV, S.A.; SPIRIDONOVA,
A.I.; TARAKANOV, G.I., kand.sel'skokhor.nauk; CHENYKAYEVA, Ye.A.;
KITAYEV, S.I., red.; FILATOV, N.A., zasluzhennyy agronom RSFSR;
GRUDINKINA, A.P., red.; MARTYNOV, P.V., red.; ARTSYBASHEVA, A.P.,
tekhn.red.; BARBASH, F.L., tekhn.red.

[Vegetable growing under cover] Ovoshchevodstvo zashchishchennogo grunta. Moskva, Izd-vo M-va sel'.khoz.SSSR, 1960. 279 p. (MIRA 13:12)

STORY BE BUILDING TO SELECT

(Vegetable gardening) (Greenhouses)
(Hotbeds)



Operation of a slurry pipeline. Stal' 20 no.6:572-574 Je '60.

1. Magnitogorakiy metallurgiclarkiy kombinat.

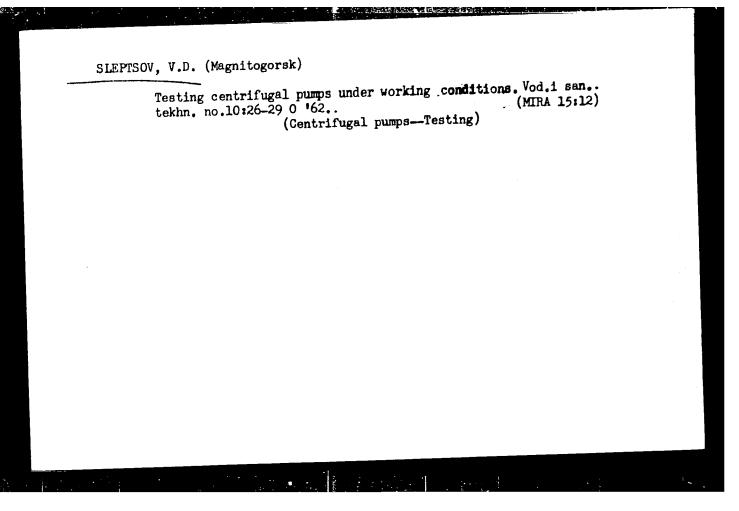
(Gas purification)

(Pipelines-Cl.amia)

Preventing incrustations in sludge pipes by parkerizing the pulp.

Vod. i san. tekh. no.ll:27-29 N '61.

(Phosphate coating) (Pipe)



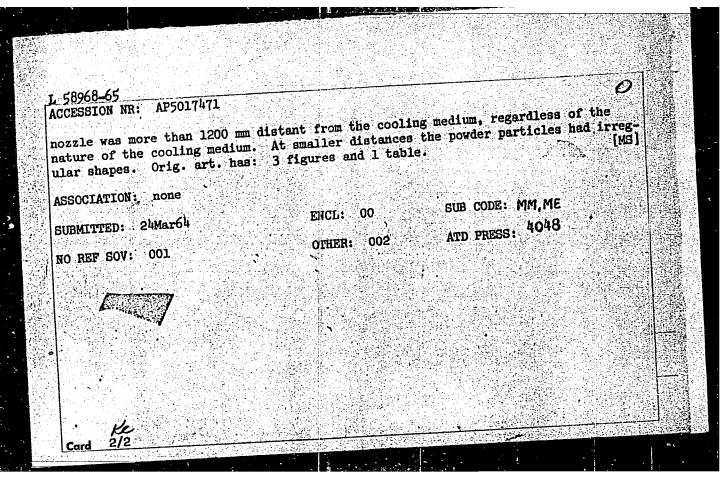
SLEPTSOV, V.D., inzh. (Magnitogorsk)

Using consecutively assembled jet elevators. Vod. 1 san. tekh.

(NIRA 18:1)

no.8:29-30 Ag '64

T. 58968-65 EPF(n)-2/EPA(1	w)-2/EMT(1)/EMT(m)/EMP(k)/EMP(z)/EMG(m)/EMP(b)/EMP(e)/ h/Pz-6/Pf-h/Pi-h
	UR/0370/65/000/033/0070/0072 669:621.762.001
CCESSION NR: AP5017471	그 그는 사람이 사용하다 하면서 그들은 사람들이 되었다. 그는 사람들은 사람들이 되었다. 그는 사람들이 가입니다 하루 바로
전 시간 그리다면 하네요 그들은 보기들에 주고 있었다. 오늘 그들은 1호 시간에 있는 1호 그리고 말을 보고 있었다.	C v (Kiev); Sleptsov, v. M. (Kiev) B
UTHOR: Krasnov, A. N. (Ki	ev); Samsonov, G. V. (Kiev); Sleptsov, V. M. (Kiev) B in molybdenum, and tungsten powders by atomization with
	ya. Metally, no. 3, 1965, 70-72
and mage conner nowder	molybdenum powder, tungsten powder, spinor
powder, plasma jet atomiza	bion &
	e compar tiolybdenum, and tungsten powders inves-
ABSTRACT: The production	of copper, nolybdenum, and tungsten powders are considered and the plasmatic distance became and the considered are considered as a considered are considered as a considered and considered are considered as a considered as a considered are considered as a considered are considered as a considere
tigated. Metal wire 1 mm	in diameter was fed at a speed of 1.0 m/min and in diameter was fed at a speed of 1.0 m/min and in the distance bear a powder a pressure of 1.2 atm at a rate of 35 1/m. The distance bear appropriate form 120 to 1500 mm. Cop-
forming gas (argen) was	ad nowders were cooled in water or engine 120 to 1500 mm. Cop-
arc gap was mil. Accura-	the cooling medium was varied in the cooling in
ner and molybdenum powders	with spherical particles with nozzle and the cooling
water or oil, regardless of	with spherical particles were produced with spherical particles were not nozzle and the cooling of the distance between the torch with spherical particles were obtained when the torch



SLEPTSOV, V.M.; SAMSOKOV, G.V.

Boron nitride. Vop.por.met.i prochn.mat. no.6:65-79 '58.

(MIRA 13:4)

(Boron nitrides)

SOV/21-59-9-12/25

AUTHOR:

Slapeptsov, V.M. and Samsonov, H.V.

TITLE:

On the Problem of the Solubility of Boron in Silicon

FERIODICAL:

Dopovidi Akademiyi nauk Ukrayins'koyi RSR, Nr 9, 1959,

pp 982-984 (USSR)

ABSTRACT:

In view of the fact that the fusions of boron and silicon have not yet been sufficiently studied, although they are of great interest due to their high degree of hardness, chemical resistance / Ref 1, 2 / and particularly due to their semiconductor properties established by several scientific investigators / Ref 3 - 6 /, the authors conducted investigations of some boron and silicon fusions in order to establish their properties and the solubility of boron in silicon. The solubility of boron and silicon was investigated by the metallographic and X-ray methods. The results (Graph Nr 1) show that this solubility at room temperature constitutes nearly 0.50 wt per cent (1.2 at p.c.) and increases to 1.6 wt per cent (2.9 at p.c.)

Card 1/3

SOV/21-59-9-12/25

On the Problem of the Solubility of Boron in Silicon

at a temperature of 1,200°C. The data obtained on the solubility at room temperature are close to the results of Pearson and Bardeen / Ref 6 / but differ to a certain extent from the data of Horn / Ref 5 / . The paper also shows the existence of a eutetic corresponding to 18 at. per cent of boron at a melting point of 1,370°C. The course of the solubility diagram at a higher content of boron shows the possibility of the existence of one more chemical composition of boron and silicon which probably can be expressed by the formula B_3 Si and which melts congruently at temperatures close to 1,700 - 1,800°C. This composition was conditionally called the γ -phase. Based on the obtained data, a hypothetical form is constructed for the section of the boron-silicon system ranging up to 40 at. per cent of boron (see Graph Nr 2).

Card 2/3

SOV/21-59-9-12/25

On the Problem of the Solubility of Boron in Silicon

There are 2 graphs and 8 references, 4 of which are Soviet, 3 English and 1 unidentified.

Instytut metalokeramiky i spetsial'nykh splaviv AN URSR (Institute of Metal Ceramics and Special Alloys ASSOCIATION:

of the AS of UkrSSR)

By V.N. Svyechnykov, Member, AS UkrSSR PRESENTED:

April 13, 1959 SUBMITTED:

Card 3/3

18(

sov/21-59-10-15/26

AUTHOR:

Slteptsov V.M. and Samsonov, H.V.

TITLE:

Kinetic Parameters of Boron Nitridization

PERIODICAL:

Dopovidi Akademiyi nauk Ukrayins'koyi RSR, Nr 10,

pp 1116-1118 (USSR) 1919

ABSTRACT:

The article covers the results of an investigation conducted to study the kinetic parameters of boron nitridization. For this purpose the diffusion of nitrogen in 99.98 % - boron within a temperature range from 600 - 1500°C was studied. A sharp decrease in activation energy and diffusion rate of nitrogen into boron at a temperature higher than 1300°C is explained by the finishing of the process of rupture of covalent boron bonds and simultaneous forming of the boron nitride structure with the subsequent slow filling of the structure vacancies by nitrogen atoms. During this, the migration of nitride atoms takes place between the plane lattices of the nitride boron struc-

Card 1/3

SOV/21-59-10-15/26

Minetic Parameters of Boron Nitridization

ture. The energy of bonding between these plane lattices equals approximately 4 Kcal/mol. The temperature dependence of the diffusion coefficient within the temperature range from 600 - 1200°C is expressed as follows:

the temperature dependence within the temperature range from 1300-1500 $^{\circ}\text{C}$ is

There are 2 graphs, and 5 references, 2 of which are Soviet, 2 German and 1 English.

Sard 2/3

SOV/21-59-10-15/26

In the Farameters of Boron Nitridization

LOCATEM: Institute metalokeramiky i spetsial nykh splaviv
AN URSE (Institute of Metal Ceramics and Special
Alloys of the AS UkrSSR)

LOCATEM: Ex V.N. Svyechnikov, Member of the AS UkrSSR

LECT: Marea 19, 1959

15.2240

27063 \$/080/61/034/003/003/017 A057/A129

11.1380

AUTHOR:

Sleptsov, V. M., Samsonov, G. V.

TITLE:

Preparation of boron nitride by nitration of a mixture of boron

anhydride and carbon

PERIODICAL: Zhurnal prikladney khimii, v. 34, no. 3, 1961, 501-505

Based on the method proposed by A. Stähler and F. Elbert [Ref. 5: Ber., 46, 2075 (1913)] the production of boron nitride by heating boron anhydride with carbon black in a flow of nitrogen at a temperature of up to 2,040°C according to the reaction B₂O₃ + 3C + N₂ = 2BN + 3CO was investigated. Boron nitride, called also "white graphite", is a crystalline substance with properties (high melting point, low thermal conductivity, high resistance to different agents etc.) which make it suitable for refractory products and also as admixture for high-temperature lubricants. Several methods are known for the preparation of boron nitride and are reviewed by the present authors in a prior paper [Ref. 1: Voprosy poroshkovoy metallurgii i prochnosti materialov (Problems in powder metallurgy and material strength), Izd. AN USSR (Ed. AS UkrSSR), 5, 66 (1958)]. The most common of these methods is nitration of boron anhydride by ammonia gas, but

Card 1/5

27063 S/080/61/034/003/003/017 A057/A129

Preparation of boron nitride by nitration of ...

considerable difficulties are encountered in the purification of the final product from the calcium oxide "carrier". An expedient development was made in Stäler's method by using carbon black simultaneously as "carrier" and as reducing agent for boron anhydride, but rather low (26%) yields were obtained and the product was contaminated with carbon. For this reason more detailed investigations of this procedure were made in the present work and attempts at improvement were centered on develoing a better contact between the reacting solids, on establishing the optimum istic of the reactants, and on finding optimum temperatures. Pure boric acil and lampblack was mixed (varying the ratio) during 1 hour, sieved (60 mem sieve) and boric acid was dehydrated by heating according to M. S. Maksimer : and G. V. Samsonov [Ref. 6: Sb. "Kinetika i kataliz" ("Kinetics and Cataysis"), Izd. AN SSSR, 129 (1960)]. Thus a porous sinter product was obtained with a thin boric acid film on carbon black. The product was ground, sieved and finally nitrated. Preliminary tests demonstrated that with stoichiometric crossitions (71% by weight H3BO3, and 29% by weight carbon black) a heavily callon-contaminated product is obtained. Thus only 25, 20, 15 and 10% by weight elloon black was added, and the duration of grinding the sintered product incressed correspondingly up to 8 - 10 hours. Results obtained in nitrations at $.500 - 1,900^{\circ}$ C show that the reduction of B_20_3 is

Card 2/5

Telephone Committee Commit

27063 s/080/61/034/003/003/017 A057/A129

Preparation of boron nitride by nitration ...

completed above 1,600°C. Maximum nitrogen content in the product is attained with 10% carbon black in the charge and decreases for 15% and 20%, and decreases sharply at 25% carbon black content. The following mechanism of reduction is proposed by the present authors: The reaction consists of the reduction of boron anhydride with carbon black to boron and subsequent carbonization or nitration of the latter. At a low carbon content in the charge all carbon is used for reduction and the excess boron anhydride evaporizes decreasing thus the yield. Increasing carbon content in the initial mixture increases the amount of reduced boron anhydride, decreases nitration degree and increases the yield. Maximum boron nitride yield is obtained at 1,600 - 1,700°C when high volatility of B₂03 is depressed by reduction and nitration. Optimum conditions for the beron nitride production are: 3 hours nitration at 1,700°C and a carbon black content of 15% in the initial mixture. A further improvement is effected by two-step nitration, i.e., first to 1,500°C and then to 1,700°C. The typical chemical composition of nitride obtained in this way is: 43.1 - 43.4% B, 55.2 - 55.9% N and up to 0.1% C. Corresponding experiments demonstrated in the present work that the results obtained by Stähler were insufficient, because of the small reaction surface between the reactants by simple mechanical mixing. Thus only 3-1% yields of a highly carbon-contaminated product were obtained. There are 2 figures, 1 table

Card 3/5

9/080/61/034/003/003/017 A057/A129

Preparation of boron mitride by mitration ...

and 7 references: 5 Soviet-blos and 2 non-Soviet-blos.

ASSOCIATION: Institut metallokeramiki i spetaial nykh splavov AN USSR (Institute

of Powder Metallurgy and Special Alloys. AS UkrSSR)

SUBMITTED: June 24, 1960

Table: Results of nitration of sintered products of boron anhydride and carbon black in a flow of nitrogen

Card 4/5

L 18717-63 EWP(q)/EWT(m)/BDS AFFTC/ASD JD/JG ACCESSION NR: AP3004360 S/0078/63/008/008/2009/2011

AUTHOR: Samsonov, G. V.; Sleptsov, V. M.

62

PITTE: Study of boron solubility in silicon

60

SOURCE: Zhurnal neorganicheskoy khimii, v. 8, no. 8, 1963, 2009-2011

MOPIC TAGS: boron, silicon, boron solubility, alloy, preparation, homogeneity, solubility, x-ray analysis, lattice constant, homogenizing

ABSTRACT: The solubility of boron in silicon at 25-1300C and the effect of homogenizing time (0.5-24 hr) on the homogeneity of the resulting alloys have been studied. Boron of 99.90% purity and single-crystalisi of 99.99% purity and having a resistivity of 1.4-1.6 chm em were used. Alloys containing 0.1-10 at B were prepared by melting the materials at 1450C in an argon/atmosphere, followed by homogenizing at 1000, 1200 and 1300C and final quenching in oil. Homogenizing was carried out under argon in a resistance furnace. A specially constructed apparatus was used for the heating and quenching operations. The homogeneity of the alloys was determined by x-ray and metallographic analysis of it was found that an equilibrium is reached after 2 hr of homogenizing; to ensure complete homogeneity, the alloys were homogenized for a total of 8 hr. To

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L 18717-63

ACCESSION NR: AP3004360

2

determine the solubility of B in Si at room temperature, samples were homogenized at 1300C for 8 hr, then gradually cooled in the furnace to 600C in 5 hr, and finally brought to room temperature. The lattice constants of Si were calculated from x-ray phase analysis data, with an error of ± 0.0002 Å, and are shown in Table 1 of the Enclosure. The solubility of B in Si, determined from a plot of lattice constant versus B content, is shown in Table 2. Lattice-constant measurements for alloys containing more than 5 at B suggested that the solubility of B in Si at the eutectic point was about 3.6 at Crig. art. has: 2 figures and 2 tables.

ASSOCIATION: none

SUBMITTED: 03Feb62

DATE ACQ: 21Aug63

ENCL: O1

SUB CODE: CH, MA

NO REF SOV: 002

OTHER: 003

Card 2/02

IJP(c) JD L 25301-65 EWT(m)/EWP(b)/EWP(t) 8/0226/64/000/006/0058/0067 ACCESSION NR: AP5001592 AUTHOR: Samsonov, G. V.; Sleptsov, V. M. В TITIE: Production of boron-silicon alloys 21 روح کارد. در در بازد از محمد کورد در خواج از هماری این صور از از چهارشد در محمد در این محمد در این در محمد در در محمد در SOURCE: Poroshkovaya metallurgiya, no. 6, 1964, 58-67 TOPIC TAGS: boron, silicon, boron alloy, silicon tetraboride, silicon hexaboride, boron silicon solubility ABSTRACT: Four methods of obtaining boron-silicon alloys have been studied: 1) sintering of boron and silicon powder compacts; 2) melting of boron and silicon compacts in boron-nitride crucibles; 3) hot compacting of silicon and boron powder compacts in graphite dies; and 4) reduction of silicon oxide with boron in a vacuum. The first three methods produced satisfactory results. However, in hot compacting there is a danger of contamination with graphite. X-ray diffraction patterns revealed two compounds, SiB 4 and SiB6. Individual phases had the following values of we compounds, sin q and since individual phases and solution of boron in microhardness: silicon, 794 + 40 dan/mm²; α-phase of a solid solution of boron in silicon, 1060 + 62 dan/mm²; β-phase (silicon-rich), 1375 + 99 dan/mm²; γ-phase (SiB₄), 2000 to 2500 dan/mm²; and δ-phase (SiB₆), 3200 to 3500 dan/mm². The thermal emf of boron-silicon alloys is generally lower than that of silicon. H drops to a **Card** 1/2

L 25301-65
ACCESSION NR: AP5001592

minimum of 85 µ\$\footnote{\psi}\$ placed at 15-25 at\$\footnote{\psi}\$ B, rises to 110 v\$\footnote{\psi}\$ degreeC at 30-40 at\$\footnote{\psi}\$ B, and drops again to 57 µ\$\footnote{\psi}\$ degreeC at 75 at\$\footnote{\psi}\$ B. The limit of solubility of boron in silicon was 0.81 at\$\footnote{\psi}\$ at 25C, 0.92 at\$\footnote{\psi}\$ at 1000C, 2.88 at\$\footnote{\psi}\$ at 1300C, and 3.6 at\$\footnote{\psi}\$ at 1375C (eutectic temperature). The resistivity of boron-silicon alloys decreases with increasing boron content and temperature. Orig. art. has: 6 figures and 4 tables.

ASSOCIATION: Institut problem materialo\(^{\psi}\$\$ deniya AN UkrSSKInstitute for the Study of Materials, AN UkrSSR)

SUBMITTED: 18Nov63 ENCL: 00 SUB CODE: MM

NO REF SOV: 005 CTHER: 015 ATD PRESS: 3181

SAMTONOV, G.V.; SENTECV, V.M.

Preparation of boron-milicon alloys. Porosh. met. 4 no.6:5867 N-D *64. (MIRA 18:3)

1. Institut problem materialovedeniya AN UkrSSR.

L 32678-65 EMP(*)/EMT(m)/EPF(c)/EPF(n)-2/EPR/T/EMI PT-1/Ps-1/Pn-4 IJP(c) JD/JW/JG/AT/WH ACCESSION NR: AP5004443 S/0	P(t)/EMP(k)/EMP(b) Pf-4/ 0226/65/000/001/0079/0086
AUTHOR: Krasnov, A.N.; Sleptsov, V.M.	γ9
TITLE: Are plasma in powder metallurgy	49 48 6 B
SOURCE: Poroshkovaya metallurgiya, no. 1, 1965, 79-8	6 31 B
TOPIC TAGS: powder metallurgy, are plasma, plasmotr carbonitride synthesis, spheroidization, spray coating	on, titanium nitriding,
ABSTRACT: The article is a survey dealing with the tech temperature arc plasma, i.e., plasma obtained by means existing types of plasmotrons are illustrated and their operature of the enthalpy and the temperature. Fields of application of the metallurgy are reviewed, such as nitriding of titanium and in the case of nitrogen plasma, spheroidization of exide a	eration is described. The two main parameters, the e arc plasma jet in powder 17 and synthesis of carbonitrides
fusion of powders of high-melting metals and compounds, coating by means of the arc plasma jet is discussed at let listed. Orig. art. has: 8 figures and 1 table.	efor the feeting or phras
Card 1/2	

L 32678-65			
ACCESSION NR: AP500444	[1] 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ya AN UkrSSR (Material Science	
SUBMITTED: 24Sep63	ENCL: 00	SUB CODE: MM, IE	
NO REF SOV: 004	OTHER: 007		
	7. 3		
2/2 Card			

"Methoden zur erzeugung kugeliger teilchen hochschmelzender metalle under verbindungen."

report submitted for 3rd Intl Conf on Powder Metallurgy, Eisenach, E. Germany, 13-15
May 1965.
Kiev, UKSSR.

KRASNOV, A.N., inzh.; SLEPTSOV, V.M., inzh.

Plasma coating of high-melting alloys. Mashinostroenie no.4:87-89

Jl-Ag *65.

(MIRA 18:8)

EWP(e)/EPA(s)-2/EWT(m)/EPF(c)/EWP(i)/ETC/EPF(n)-2/EWG(m)/EWP(v)/EWP(t)/ L 1304-66 EPA(w)-2/EWP(j)/T/EWP(k)/EWP(z)/EWP(b) IJP(c)
ACCESSION NR: AP5022540 DS/JD/WW/JG/AT/RM/ UR/0226/65/000/009/0011/0018 DS/JD/WW/JG/AT/RM/ V. M.; Prshedromirskaya, Ye, M.; Kukota, AUTHOR: Sleptsov, 48,5 7. TITLE: Production and properties of the spheric powders of refractory compounds SOURCE: Poroshkovaya metallurgiya, no. 9, 1965, 11-18 TOPIC TAGS: spheroidization, refractory compound, spheric metal powder, powder metal sintering, fuel cell, plasma jet ABSTRACT: A Porous cermets made of spheric powders are used in the fabrication of electrodes and diaphragus for chemical industry as well as catalysts and catalyst carriers. They have made it possible to develop effective models of devices for direct conversion of heat to electrical energy ("fuel cells") and recently studies of the use of porous tungsten for the ionization of alkali metals? in the ion engines of space rockers have appeared. In this connection the authors describe the techniques and means of obtaining spherical particles of certain refractory materials as well as the properties of the obtained powders. Spheric powders can be prepared by granulating fine-disperse powders with a binder (solution of polyvinyl alcohol or synthetic rubber in gasoline, in which the fine-Card 1/3

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disperse powder of refractory compounds is stirred until it acquires a creamy consistency). The granulation itself is performed by means of techniques used in the production of hard alloys (pelletization via a mesh), and it is followed by sintering of the granules. In some cases where fusion of particles of refractory metals and their compounds is required, sintering may be replaced with fusion in a plasma jet. The bulk weight and shake-down weight of the spheric particles of the carbides and borides of high-melting metals are low. Flowage of spheroidized carbide powders is much higher than in the analogou; boride powders; the flowage of CrB is particularly low. The state of the surface (unit surface area) is roughly the same in both borides and carbides. A determination of the density of sintered spheric powders of refractory compounds shawed that, following the sintering of the particles, their residual porosity is approximately 8-18%. The least porosity (2-3%) is displayed by granulated and sintered particles of Cr₃C₂. Orig. art. has: 6 figures, 5 tables.

ASSOCIATION: Institut problem materialovedeniya AN USR (Institute for the Study of Materials AN UkrSSR); Institut tekhnicheskoy teplofisiki AN USSR (Institute of Technical Heat Physics AN UkrSSR)

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ORG: none FITTE: Plan for a large installation at Yakutsk for study of extensive air showers /Report, All-Union Conference on Cosmic Ray Physics held at Apatity 24-31 August 1964/ /Report, All-Union Conference on Cosmic Ray Physics held at Apatity 24-31 August 1964/ SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v. 29, no. 9, 1965, 1690-1692 TOPIC TAGS: primary cosmic ray, secondary cosmic ray, extensive air shower, spectral energy distribution, cosmic radiation composition, cosmic radiation anisotropy ANSTRACT: After a discussion of the significance of extensive air showers for the investigation of ultrahigh energy primary cosmic rays, the authors briefly describe an vestigation of ultrahigh energy primary cosmic rays, the authors briefly describe an installation to be completed in the next two or three years near sea level at lattitude installation to be completed in the next two or three years near sea level at lattitude installation concerning the energy spectrum, composition, and anisotropy of primary cosmic mation concerning the energy spectrum, composition, and anisotropy of primary cosmic mation concerning the energy spectrum, composition, and anisotropy of primary cosmic tensive air showers, will comprise 65 stations spread over an area of 23 km ² . Each tensive air showers, will comprise 65 stations spread over an area of 23 km ² . Each tensive air showers, will comprise 65 stations spread over an area of scintillation vill be equipped with scintillation counters with a total sensitive area of scintillation of 4 m ² , and at the central station - 10 m ² . The total sensitive area of scintillation counters with a total sens	and the second s	SUILBUR CODE: 010 00 000	
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SLEPTSOV, V.M., PRSHEDROMIRSKAYA, Ye.M., KUKOTA, Yu.P.

Porous materials of transition metal carbides and borides.
Porosh. met. 5 no.10:85-90 0 65. (MIRA 18:11)

l. Institut problem materialovedeniya AN UkrSSR.

JD/JG/WH EWP(e)/EWT(m)/T/EWP(t) UR/0226/66/000/003/0084/0087 L 24130-66 SOURCE CODE: ACC NR: AP6011350 AUTHOR: Prshedromirskaya, Ye. M.; Kukota, Yu. P.; Sleptsov, V. M.

ORG: Institute for Problems of Materials Science, Academy of Sciences
UkrSSR (Institut problem materialovedenlya AN USSR); Institute of Technical Thermophysics, Academy of Sciences UkrSSR (Institut tekhnicheskoy teplofiziki, AN USSR)

TITIE: Strength characteristics of porous materials made of refractory compounds

SOURCE: Poroshkovaya metallurgiya, no. 3, 1966, 84-87

TOPIC TAGS: titanium carbide, titanium boride, compressive strength, bending strength, sintering, porous material

ABSTRACT: The purpose of this work was to investigate the limits of compressive strength and bending of some porous refractory compounds.

The samples for compression tests were prepared in the form of The samples for compression tests were prepared in the form of cylinders measuring 8 mm in diameter and 12 mm in height, while the samples for bend tests were parallelepipeds, measuring 7 x 7 x 7 mm. TiC, TC, Cr₃C₂, ZrC, TiB₂, and ZrB₂ powders were used as initial materials. The compression and bend tests were conducted to rupture on a TsD-4 hydraulic press. The test data obtained show good correlation with the Rushkevich curve which can be approximated by an lation with the Ryshkevich curve, which can be approximated by an Card 1/

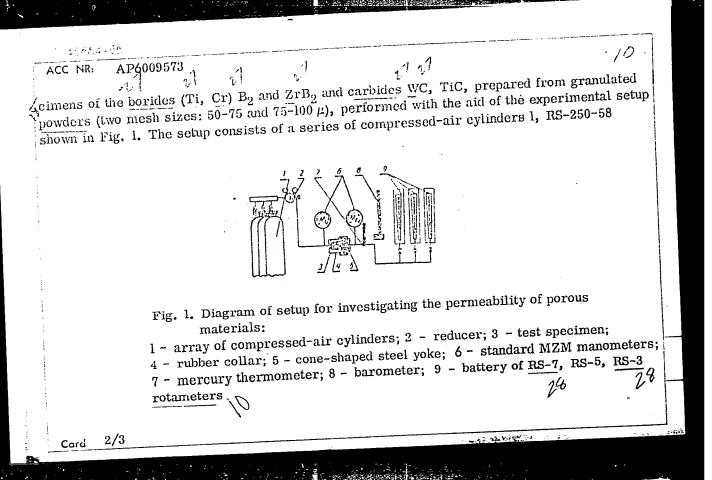
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equation as $\sigma = \sigma_{00}$ -BP, where σ is the compression strength of a porous material, σ_{0} is the compression strength of a nonporous material, P is the porosity expressed in fractions, B is the numerical coefficient; usually B = 7 for experimental data for the majority of porous materials) (Ye. Ryshkevich. Compression strength of porous sintered alumina) and zirconia, J. Amer. Ceram. Soc., 36, 65, 1953). The dependence of relative strength on porosity during compression for the dependence of relative strength on porosity during compression for titanium, chromium, and tungsten carbides as well as titanium and zirconium borides of the 75 -- m_{e} fraction can be expressed by the formula $\frac{\sigma}{\sigma_{0}}$ = e^{-7P}. There is no corresponding formula for bending tests. The relationship between the strength characteristics of the specimen and the granulometric composition of the initial powders has been established. It has been found that activated sintering of porous parts increases the strength of the parts while the porosity remains the same. Orig. art. has: 2 figures and 2 tables.

SUB CODE: 11/ SUBM DATE: 060ct65/ ORIG REF: 005/ OTH REF: 002/

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	1. 40664466 EWI (0.1/EWF(0)/EWI(m), EWF(0)/I/EWF(0)/ET/EWF(0)/EWF(0), EWF(0). ACC NR: AP6009573 (A) SOURCE CODE: UR/0226/65/000/011/0032/0040 . SOURCE CODE: UR/0226/65/000/011/0032/0040 .
	AUTHOR: Kukota, Yu. P.; Prshedromirskaya, Ye. M.; Sleptsov, V. M.
÷	ORG: Institute for the Study of Materials, AN UKrSSR (Institut problem Materials and UkrSSR); Institute of Heat Physics Engineering, AN UkrSSR (Institut tekhnicheskoy teplofiziki AN UkrSSR) TITLE: Gas permeability of porous materials made of refractory compounds
	SOURCE: Poroshkovaya metallurgiya, no. 11, 1965, 32-40
	TOPIC TAGS: stainless steel, reductor, gas permeability, permeability measurement, powder metallurgy, refractory compound, boride, carbide / Kh23Nl8 stainless steel, RS-250-58 reductor
	ABSTRACT: In connection with the development of the porous cooling method, based on the blowing of gas through a porous wall to protect the wall against contact with the principal flow blowing of gas through a porous wall to protect the wall against contact with the principal flow blowing of gas and to reduce heat transfer and friction, and since the design and calculation of porous of the porous material, the
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reductor 2, clamp 4,5 for gripping the tested specimen 3, and measuring instruments 6-9. Compressed air is blown through the specimen and gas permeability of the specimen is measured as a function of the pressure gradient. It is found that TiC and ZrB_2 display a gas permeability that is inferior to that of WC and (Ti, Cr) B_2 . The best permeability was displayed by the specimens of specially prepared porous stainless steel Kh23N18 that were inplayed by the specimens of specially prepared porous stainless are in good agreement vestigated for comparison. It is shown that the experimental findings are in good agreement with theoretical formulas. Further, these findings indicate the presence of deviations from Darcy's law of linear dependence; hence, hydraulic characteristics cannot be expressed by the permeability coefficient alone; allowance must be also made for the coefficients of viscosity and inertial resistance (as a function of porosity of the material). Orig. art. has: 16 formulas, 1 table, 7 figures.

SUB CODE: 11, 20, 13/ SUBM DATE: 06Jan65/ ORIG REF: 008/ OTH REF: 002

Card 3/3 25/2

L 23587-66 EWP(e)/EWT(m)/ETC(f)/EWG(m)/T/EWP(t) TJP(c) JD/JW/ACC NR: AP6012768 SOURCE CODE: UR/0226/66/000/00	W/JG/AT/WH 1/0011/0015
ACC NR: AP6012768 SOURCE CODE: UR/0226/66/000/00	7
AUTHOR: Prshedromirskaya, Ye. M.; Sleptsov, V. M.	763
ORG: The Institute of Materials Science Problems, Academy of Science	es UkrssR (Institut
problem meterialovedeniya AN USSR)	
TITLE: Sintering of porous parts from refractory compounds	
SOURCE: Poroshkovaya metallurgiya, no. 4, 1966, 11-15	
TOPIC TAGS: porous metal, revractory metal, activation, sintered me	tal, filler
ABSTRACT: The author presents the results of an investigation of the sintering some porous materials from carbides and borides of refract WC, ZrB ₂ , TiB ₂). The kinetics of activated sintering of titanium carbides in 177 420 μ is studied. The values of the activation energy carbide with additions of cobalt chloride and without it are computed lished that introducing fillers makes it possible to raise the porosioning art has: 5 figures, 5 formulas, and 1 table. [Based on authority contents of the contents of the computed carbides are the porosioning art has: 5 figures, 5 formulas, and 1 table. [Based on authority contents of the carbides of the carbides are computed to the contents of the carbides are computed to the carbides of the carbides of the carbides are computed to the carbides of the carb	rbide of the gy of titanium d.\DIt is estab-
SUB CODE: 11,13/ SUBM DATE: 220ct65/ ORIG REF: 011/	
SUB CODE: 11,13/ SUBM DATE: 220ct65/ ORIG REF: 011/	TH REF: 001/
SUB CODE: 11,13/ SUBM DATE: 220ct65/ ORIG REF: 011/	TH REF: 001/

VERNOV, S.N.; YEGOROV, T.A.; YEFIMOV, N.N.; KRASIL'NIKOV, D.D.; KUZ'MIN, A.I.; MAKSIMOV, S.V.; NESTEROVA, N.M.; NIKOL'SKIY, S.I.; SLEPTSOV, Ye.I.; SHAFER, Yu.G.

Project of a large setup for studying extensive air showers in Yakutsk. Izv. AN SSSR. Ser. fiz. 29 no.9:1690-1692 S '65. (MIRA 18:9)

IGONON, P.G., inzh.; SVITKIN, V.V., inzh.; MITROFANOV, M.G., kand.tekhn.nauk; SLEPTSOV. Yu.S., inzh.; KOLOZHVARI, A.A., inzh.; PASHENKO, M.A., inzh.; ZHIVOLUPOVM.A., inzh.; Prinimali uchastiye: MUSHENKO, D.V.; TSYSKOVSKIY, V.K.; SHCHEGLOVA, TS.N.; FREYDIN, B.G.; PYL!NIKOV, V.I.; LEVINA, M.I.; LEVIN, A.I.; LUR!YE, Ye.I.; BAYKINA, T.A.; UDOVENKO, S.A; MARCHENKO, T.A.

Effect of the method of liquid paraffin oxidizing on the yield and quality of the obtained fatty acids. Masl.-zhir.prom. 28 no.11:20-23 (MIRA 15:12) N '62.

l. Groznenskiy nauchno-issledovatel'skiy neftyanoy institut (for Igonin, Svitkin, Mirtofanov, Sleptsov, Kolozhvari, Pashenko, Zhivolupov).

2. Vsesoyuznyy nauchno-issledovatel'skiy institut neftekhimicheskikh protsessov (for Mushenko, TSyskovskiy, Shcheglova, Freydin, Pyl'nikov, protsessov (for Mushenko, TSyskovskiy, Shcheglova, Freydin, Pyl'nikov, Levina, Levin).

3. Lengiprogaz (for Lur'ye, Baykina).

4. VNIISINZh (for Udovenko, Marchenko).

(Acids, Fatty)

IGONIN, P.G.; SVITKIN, V.V.; SLEPTSOV, Yu.S.; KOLOZHVARI, A.A.; PASHENKO, M.A.; GLOTSER, Ye.M.

Oxidation of naphthenic hydrocarbons. Nefteper. i neftekhim. (MIRA 16:10)

1. Groznenskiy nauchno-issledovatel'skiy institut.

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320004-9"

EWP(j)/EPF(c)/EWT(m)/BDS-AFFTC/ASD/APGC-Pc-4/Pr-4s/0065/63/000/005/0034/0038 L 10227-63 RM/BM/WW/MAY/DJ ACCESSION NR: AP3000503

AUTHOR: Igonin, P. G.; Svitkin, V. V.; Kolozhvari, A. A.; Sleptsov, Yu. S.; Glotser, Ye. M.

TITLE: Oxidation of isoparaffinic hydrocarbons

SOURCE: Khimiya i tekhnologiya topliv i masel, no. 5, 1963, 34-38

TOPIC TAGS: oxidation, isoparaffinic hydrocarbons, isoparaffinic acids, plasticizers, flotation agents, synthetic lubricant esters, motor alkylate

ABSTRACT: Tsoparaffinic/acids are of interest as starting materials for the production of plasticizers, flotation agents, and synthetic lubricant esters. The synthetic fatty acid pilot plant of GrozNII was used for oxidation of motor alkylate containing no nytrocarbons complexing with urea. The oxidation was done with air at 1200 and a manganese-potassium soap catalyst to an acid number of 70 mg KOH per gram. The oxidate was saponified and the acids isolated and fractionated. Nearly 90% forms no complex with urea. When compared to fractions of synthetic fatty acids distilling within the same limits, the acids obtained in this work have higher acid numbers and lower pourpoints. Heat treatment strongly reduces the

Card 1/2

l 10227-63 ACCESSION NR	: AP3000503				ø
content of pe	etroleum ether	insolubles formed :	n the oxidation.	Orig. ar	. has: 6
ASSOCIATION:	GrozNII				
SUBMITTED: (00	DATE ACQD:	12Jun63	ENCL:	00
SUB CODE: CH	H	NO REF SOV:	002	OTHER:	100
(

IGONIN, P.G.; SVITKIN, V.V.; SLEPTSOV, Yu.S.; KOLOZHVARI, A.A.;
PASHENKO, M.A.; GLOTSER, Ye.M.

Oxidation of naphthenic hydrocarbons. Trudy GrozNII no. 15:
298-302 '63.

(MIRA 17:5)

IGONIN, P.G.; SVITKIN, V.V.; MITROFANOV, M.G.; SIEPTSOV, Yu.S.;
KOLOZHVARI, A.A.; PASHENKO, M.A.; ZHIVOLUPOV, M.A.

Continuous and periodic oxidation of liquid paraffins to
produce synthetic fatty acids. Trudy GrozNII no. 15.303-322
163.

(MIRA 1745)

ACCESSION NR: AT4016004

S/2625/63/000/015/0323/0332

AUTHOR: Igonin, P_G.; Switkin, V.V.; Kolozhvari, A.A.; Sleptsov, Yu. S.; Glotser, Ye. M.

TITLE: Oxidation of isoparaffinic hydrocarbons

SOURCE: Grozny*y. Neftyanoy nauchno-issledovatel'skiy institut. Trudy*, no. 15, 1963. Tekhnologiya pererabotki nefti i gaza. Neftekhimiya (Technology of processing petroleum and gas. Petroleum chemistry), 323-332

TOPIC TAGS: hydrocarbon, hydrocarbon oxidation, organic acid, alkylate, motor alkylate, isoparaffinic hydrocarbon

ABSTRACT: Since the paraffins which are oxidized in the production of synthetic fatty acids also contain isoparaffinic hydrocarbons, the authors studied the oxidation of a motor alkylate consisting entirely of hydrocarbons which do not form complexes with carbamide. Both the entire motor alkylate and the 200-300C fraction were first oxidized under laboratory conditions on a glass column at 117 or 125C, and then on the SZhK experimental apparatus at 120C with Mn and K soaps as catalysts. The density, molecular weight, acid number,

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ACCESSION NR: AT4016004

ether number, iodine number and other characteristics of the products are tabulated for each case. The results show that motor aklylates must be oxidized under a pressure of 2-3 atm. The theoretical scheme for the preparation of acids having an iso structure is analogous to that used for the preparation of synthetic fatty acids. However, the acids obtained from motor alkylates consist almost entirely of acids which do not form complexes with carbamide. During the oxidation of isoparaffinic hydrocarbons, a large number of products which are insoluble in petroleum ether are formed, the acid content of which sharply decreases after thermal treatment. The oxidation of motor alkylates yields which have lower solidification points and acid numbers. Orig. art. has: 8

ASSOCIATION: Neftyanoy nauchno-issledovatel'skiy institut, Grozny*y (Petroleum Scientific Research Institute)

SUBMITTED: 00

DATE ACQ: 31Jan64

ENCL: 00

SUB CODE: OC

NO REF SOV: 003

OTHER: 000

SLEPTSOV-SHEVLEVICH, B. A., inzh.

Dependence of multiansmal level variations of the sea surface on atmospheric conditions. Uch. 2ap. LVIMU no.13:67-73 \$59. (MIRA 13:9)

1. Kafedra gidrologii Leningradskogo vysshego inzhenernogo morskogo uchilishcha im. admirala Makarova. (Oceanography) (Meteorology)

ACCESSION NR: AT4015835 S/2561/63/000/014/0041/0046

AUTHOR: Sleptsov-Shevlevich, B. A.

TITLE: Short perturbations of solar activity and possible causes of the multivalue character of their relation to fluctuations of hydrometeorological elements

SOURCE: Leningrad. Arkticheskiy i antarkticheskiy nauchno-issledovatel'skiy institut. Problemy* Arktiki i Antarktiki (Problems of the Arctic and Antarctic); sb. statey, no. 14, 1963, 41-46

TOPIC TAGS: solar activity, hydrometeorology, troposhere, atmosphere, sun spot, Wolf number, air temperature, solar impulse, sun

ABSTRACT: The author begins by claiming that it has been definitely established that the tropospheric reaction to solar activity is not simple, but complex, constituting a manifestation of a certain physical autonomy of the atmosphere. The lack of constancy in the sign of the relation, the reversing of the sign of correlation functions, and occasionally the total disappearance of any relation are, apparently, the consequence of a unique and thus, incomprehensible reaction of the atmosphere to solar disturbances. The author reviews several well-known examples Gard 1/4

ACCESSION NR: AT4015835

of the apparent cessation of heliotropic correlations, such as the parallelism in the behavior of sun spot curves and air temperature at moderate latitudes or the parallelism in the behavior of Wolf number curves and the number of days with deep cyclonic conditions during three 11-year cycles of the present century. The author undertook an attempt to provide a possible explanation of the inconstancy of the correlation sign between solar activity and fluctuations of climatic elements as illustrated by changes in air temperature at Barentsburg (island of Spitzbergen) and at Berlin. Relative Wolf numbers were used as the index of solar activity for this purpose. A periodogram analysis was made according to the Shuster method in order to determine the structure of the 11-year cycle and discover the dominant period of short fluctuations of solar activity; the analysis of included nine-month sliding sums of Wolf numbers, in which the influence of the ll-year cycle was excluded, and incorporated more than 2000 information units over a period from 1749 to 1926. The nine-month sliding sums of the Wolf numbers and air temperature were subjected to a sliding method of periodographic analysis with a 28-month test period. Phase differences between air temperature and solar activity were calculated by displacing one series with respect to the other with . a definite shift (one year for Barentsburg; nine months for Berlin). The author asserts that a definite change in phase shifts between the phenomena under study Corders with a change in the dimensions of the 28-month fluctuations of solar Card 2/4

ACCESSION NR: AT4015835

activity. The difference in the delay of uniform phenomena (temperature at Barentsburg and at Berlin) is, in all likelihood, caused by some as yet insufficiently understood reaction of the atmosphere to solar impulses and the subsequent mechanism whereby, by circulation, the perturbations perceived are transmitted to other regions. In fact, the author believes that under the effect of solar activity there occur in the atmosphere continuous transformations of wave processes, which attenuate or intensify as a function of the degree of active radiation originated by the sun. In other words, there is observed to some degree a macropulsation of baric formations where the same variable advection of cold or warm air masses takes place. Provided there is constancy of the general phase shift determined by the inertia of the atmosphere, it is possible that this wave process correctly follows the variable solar activity. In turn a concrete phenomenon, e.g. temperature in a concrete geographical region varies, in harmony with another, but constant, phase shift caused by geographical position. Consequently, it can only be assumed, according to the author, that the general phase shift, connected with the transmission of energy from the upper boundary of the atmosphere to the lower, does not remain constant, but is a function of the power of the solar pulse itself. Orig. art. has: 4 figures.

Card 3/4

ACCESSION NR: AT4015835

ASSOCIATION: Arkticheskiy i antarkticheskiy nauchno-issledovatel'skiy institut,

Leningrad (Arctic and Antarctic Scientific Research Institute)

SUBMITTED: 30Mar62

DATE ACQ: 02Mar64

ENCL: 00

SUB CODE: AA, ES

NO REF SOV: 0009

OTHER: 001

Card 4/4

SHCHUTSKAYA, Ye.I., kand. med.nauk; MIHOSHNIKOVA, M.Ya., SOKOLOVA, R.L., SIEFTSOVA, A.I.

Epidemiologic algnificance of avian tuberculesis. Probl. sub. no.7:10-13 164. (MTRA 18:10)

1. Novosibirskiy nauchno-issledovateliskiy institut tuberkuleza (dir.- kand. med. nauk M.V. Svirezhev).

SHUTSKAYA, Ye.I., kand. med. nauk; Prinimali uchastiye: RABINOVICH, S.Ye., prof.; SLEPTSOVA, A.I., vrach; LIVEN, K.I., vrach; SOKOLOVA, R.I., vrach; PEREL'MAN, R.M., vrach; AL'TMAN, I.M., vrach; SHEPILOV, N.S., kand. veterin. nauk; SVIRIDOV, A.A.

Epidemiological importance of tuberculosis in cattle.

Veterinariia 40 no.10:19-20 0'63. (MIRA 17:5)

1. Novosibirskiy nauchno-issledovatel'skiy institut tuberkuleza (all except Shepilov, Sviridov).

SLEPTSOVA, G. P.

"The Movement of a Circular Diaphragm as a Result of Pulse Action." Cand Phys-Math Sci, Kiev State U imeni Shevchenko, 6 Dec 54. (PU, 26 Nov 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (11)

SO: Sum. No. 521, 2 Jun 55

SLEPTSOVA, G.P.

Plastic deformation of a round membrane subjected to static load.

Dop.AN URSR no.6:520-524 155. (MIRA 9:7)

1.Kiivskiy derzhavniy universitet imeni T.G.Shevshenka. Predstaviv diysniy chlen AN URSR O. Yu. Ishlins'kiy.
(Electic plates and shells)

SLEPTSOVA, C.P. [6]ieptsova, H.P.]

A problem of a plastic membrane. Dop.AH URSR no.6:730-734 '60.

(MIRA 13:7)

1. Kiyevskiy inzhenerno-stroitel'nyy institut. Predstavleno akademikom AN USSR A.Yu Ishlinskim [0.IU.Ishlins'kym].

(Elastic plates and shells)

tSHLINSKIY, A.Yu. (Kiyev); SLEPTSOVA, G.P. (Kiyev)

Impact of a viscoplastic rod on a rigid obstacle. Prikl. mekh. 1 no.2:1-9 165.

1. Institut matematiki AN UkrESR i Kiyevskiy inzhenerno-stroi-tel'nyy institut.

ALEKSANDROV, N.P., red.; SLEPTSOVA, K., red.; NEMYTOV, V., tekhn. red.

[Measures for introducing a scientific farming system on collective and state farms of Orlov Province] Meropriiatiia po vnedreniiu nauchno obosnovannoi sistemy vedeniia khoziaistva v kolkhozakh i sovkhozakh Orlovskoi oblasti;; predlozheniia, razrabotannye brigadoi VASKhNIL s uchastiem nauchnykh rabotnikov i spetsialistov Orlovskoi oblasti. Orel, Orlovskoe knizhnoe izd-vo, 1960. 286 p. (MIRA 14:10)

1. Rukovoditel' brigady Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk im. V.I.Lenina (for Aleksandrov).

(Orlov Province—Agriculture)

FEDII, Larat Aleksandrovich; SLEFTSOVA, K., red.; KUZIH, N., tekhn.
red.

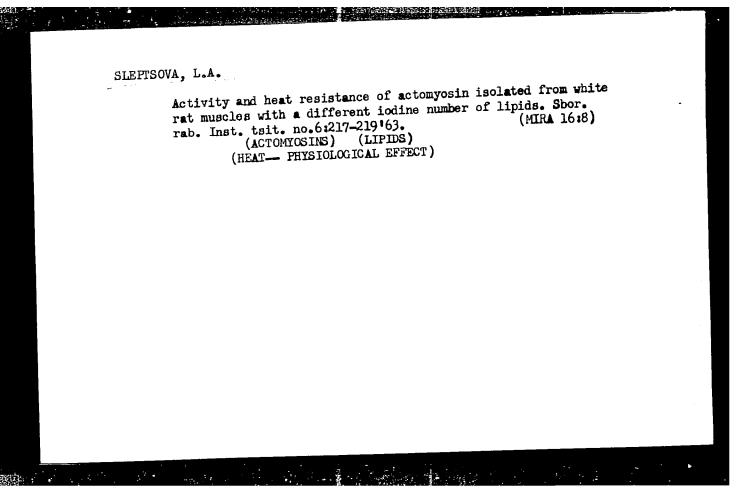
[Corn] Kukuruza. Orel, Orlovskoe knizhnor izd-vo, 1963. 130 p.
(MIRA 16:12)

(Corn (Maize))

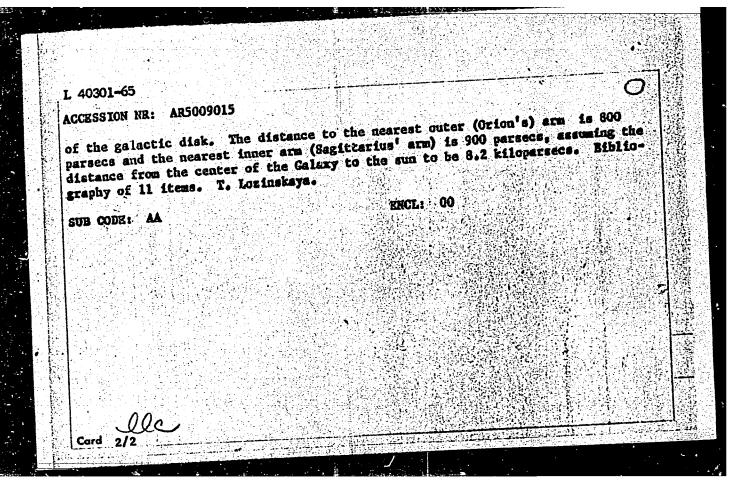
YAKOVLEV, V.A.; SLEPTSOVA, L.A.

Hyaluronic structures in nerve tissue. TSitologiia 3 no.5:605-607 (MIRA 14:10)

1. Laboratoriya biokhimii biologicheski aktivnykh veshchestv Instituta evolyutsionnoy fiziologii AN SSSR i Kafedra biokhimii Leningradskogo universiteta. (HYALURONIC ACID) (NERVES--ANATOMY)



Pe-5/Pae-2/P1-4 GM/85-4 8/0269/65/000/002/0052/0052 L 40301-65 FED/EWT (1)/EWG(v)/EEC-4/EEC(t) ACCESSION NR: AR5009015 SOURCE: Ref. zh. Astronomiya. Otd. vyp., Abs. 2.51.409 AUTHOR: Kardashev, N. S.; Lozinskaya, T. A.; Sleptsova. N. P. TITLE: Spiral structure of the Galaxy as revealed by radio observations at 21 cm CITED SOURCE: Astron. tsirkulyar, no. 289, marta 24, 1964, 1-4 TOPIC TAGS: Galaxy, galactic structure, radio astronomy, galactic hydrogen, spiral arm, galactic disk, Orion, Sagittarius TRANSLATION: The authors report the results of an investigation of the spiral structure of the Galaxy on the basis of all published radio observations at 21 cm. The dependence of the radial velocities of hydrogen clouds on galactic longitude has been determined. The parameters of the two branches of the logarithmic spiral have been found for the inner parts of the Galaxy. Using the theory of a circular model of movement of hydrogen masses the authors have constructed a spiral for the outer regions of the Galaxy. It was found that the angle of torsion for both spiral arms changes smoothly from 83° in the central part to 85° in the outer regions 1/2 Card



S/0033/64/041/004/0601/0607

ACCESSION NR: AP4043951

AUTHOR: Kardashev, N. S., Lozinskaya, T. A., Sleptsova, N. F.

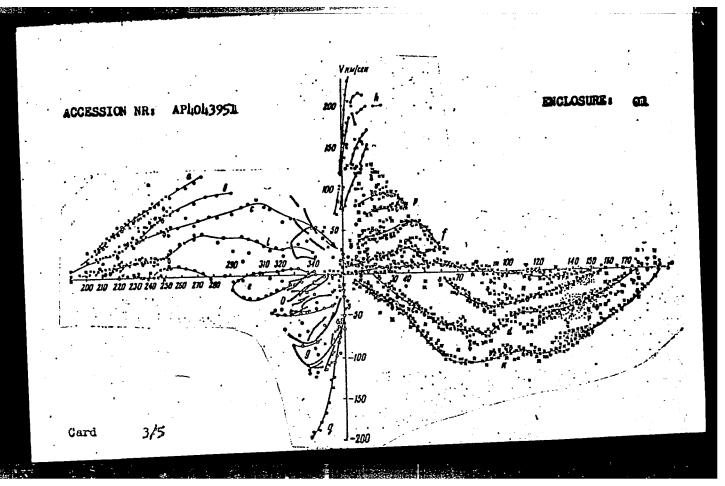
TITLE: Spiral structure of the Galaxy from observations at 21 cm

SOURCE: Astronomicheskiy zhurnal, v. 41, no. 4, 1964, 601-607

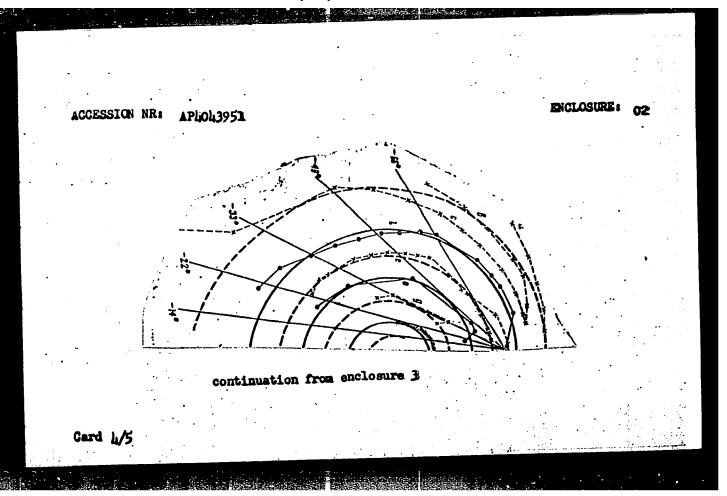
TOPIC TAGS: astronomy, Galaxy, galactic spiral, galactic disk, interstellar hydrogen

ABSTRACT: The distribution of interstellar hydrogen in the Galaxy, determined from radio observations at 21 cm, does not reveal a clearly defined spiral structure. The presently available pattern of distribution of hydrogen masses in the Galaxy generally reflects reality and if there is a spiral structure the angle of torsion cannot differ greatly from 90°. In order to clarify this problem, the authors exploited all presently known profiles of the 21-cm line near the galactic equator. The radial velocities of the intensity maxima of these profiles were plotted on a graph as a function of galactic longitude. This graph, Fig. 1 of the Enclosure, represents the distribution of radial velocities of hydrogen graph, Fig. 1 of the galactic equator; the velocities of hydrogen clouds along the galactic clouds along the galactic equator; the velocities of hydrogen clouds along the galactic equator; the various symbols represent observations made at Leyden, Sydney, Moscow, equator; the various symbols represent observations made at Leyden, Sydney, Moscow, equator; The various symbols represent observations had be chains and loops which Bonn and in California. Fig. 1. makes it possible to distinguish the chains and loops which

Cord 1/5



APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001651320004-9"



SHOLOMITSKIY, G.B.; SLEPTSOVA, N.F.; MATVEYENKO, L.I.

A STATE OF THE STA

Spectra of the components of 3C 273. Astron. zhur. 42 no.6: 1135-1137 N-D '65. (MIRA 19:1)

1. Gosudarstvennyy astronomicheskiy institut im. P.K. Shternberga i Fizicheskiy institut AN SSSR im. P.N. Lebedeva. Submitted June 25, 1965.

10430

S/137/62/000/003/072/191 A006/A101

15,2400

AUTHORS:

Fedorchenko, I.M. Filatova, N.A., Sleptsova, N.P., Dmitrieva, M.A.,

Yermolin, Yu.N., Voynitskiy, A.I., Kiselev, V.P.

TITLE:

Refining of molten sodium with the aid of cermet filters

PERIODICAL:

Referativnyy zhurnal, Metallurgiya, no. 3, 1962, 44 abstract 3G305 ("Poroshk. metallurgiya", 1961, no. 4, 98 - 102, English summary)

For the refining of molten Na from oxide compounds, cermet filters TEXT: were used made of reduced Fe-powder (a mixture of A |) H (APZhM) grade fractions). The filters of about 40% porosity were manufactured in the form of beakers 32 and 24 mm in diameter, and 75 mm high. The blanks pressed under 2 t/cm² pressure were sintered in converted gas atmosphere at 1200°C for 2 h. The hydraulic characteristics of Fe-filters are given (gas and oil permeability); the degree of refining of the filters was 5 .. As a result of using cermet filters the Na purity was raised and the quality of Ti, obtained by the method of sodium-thermal reduction, was improved. The filters have been reliably operating for over one year. The efficiency of the filters is about 0.12 kg/cm2 · hour at a pressure

Card 1/2

FILATOVA, N.A.; SLEPTSOVA, N.P.; VOYDENOV, I.I.

Use of ceramic metal plates in instrument manufacture. Porosh. met. 2 no.4:100-104 J1-Ag '62. (MIRA 15:8)

l. Institut metallokeramiki i spetsial'nykh splavov AN UkrSSR. (Instrument manufacture) (Ceramic metals)

L 12887-63 EWP(q)/EWT(m)/BDS AFFTC/ASD JD/HW-2/JG S/0226/63/000/003/0052/0062

AUTHOR: Fedorchenko, I. M.; Filatova, N. A.; Dmitriyeva, N. A.; Sleptsova, N. P.

TITLE: Manufacture and properties of sintered filters

103

SOURCE: Poroshkovaya metallurgiya, no. 3, 1963, 52-62

TOPIC TAGS: sintered filter, spherical metallic powder, inert filler, Fe, Ni, Cu, bronze, phosphorus, strength, permeability, porosity particle size

ABSTRACT: The authors investigated the method of producing sintered filters by melting metallic powder mixed with an inert filler. This mixture was heated to 373-423K above the melting temperature of the metal. Spherical powders of iron, nickel; copper and bronze were prepared by this method. Carbon black was used as a filler in processing iron powder; calcium carbonate was used with nickel powder. The best temperature for melting nickel was 1823K; for bronze, 1223K; and for copper, 1473K. Activated sintering improves the strength of products and preserves their permeability. The strength of the filters was also increased by adding ammonium phosphate, cuprous chloride and tin to the metallic powders, and became much higher than that of filters made of paper, carton, or fabric. Permeability and filtration ability of sintered filters are

Card 1/2

L 12887-63 ACCESSION NR:AP3001953

determined by the shape and size of the particles from which the filters are made. Filters with 35-40% porosity are most effective. The change of particle size from 45 to 250-450 Microns raises the permeability up to 10 times. The described method for obtaining spherical powders is recommended as equal to the method of metal pulverization. Sintered filters of various permeabilities, particle sizes, porosities, and thicknesses may be selected for different working requirements. Orig. art. has: 13 figures and 1 table.

ASSOCIATION: Institut metallokeramiki i spetsial'ny*kh splavov AN USSR (Institute of Metal-Ceramics and Special Alloys, Academy of Sciences AN UKrSSR)

SUBMITTED: 11Sep62

DATE ACQ: 11Jul63

ENCL: 00

SUB CODE: ML

NO REF SOV: 007

OTHER: 003

Card 2/2

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T/EWP(t)/ETI/EWP(k) IJP(c) JD SOURCE CODE: UR/0226/65/000/011/0001/0008 EWP(e)/EWT(m)/EWP(w)/T/EWP(t)/ETI/EWP(k) L 46660-66 ACC NR. AP6009568 (N) AUTHOR: Sleptsova, N. P.; Krasnov, A. N.; Ivashchenko, V. V. ORG: Institute for the Study of Materials, AN UkrSSR (Institut problem materialovedeniya AN UkrSSR); Kiev Polytechnic Institute (Kiyevskiy ordena Lenina politekhnicheskiy institut) TITLE: Production and properties of spherical-particle copper powders and copper-powder products SOURCE: Poroshkovaya metallurgiya, no. 11, 1965, 1-8 TOPIC TAGS: spheric metal powder, copper, powder metal production, powder metal compaction ABSTRACT: Copper powders obtained by the method of plasma-jet atomization as well as by the method of the spheroidization of nonspherical powder particles through fusion in an inert filler have particles of a more uniformly spherical shape and cleaner and smoother surface than the powders produced by the air- or water-atomization methods. The plasma-jet atomization method moreover makes it possible to utilize copper-wire wastes for the production of spherical-particle powder. This method yields a high percentage of spherical particles and Card 1/2

L 46660-66 ACC NR: AP6009568

can be adjusted to obtain the desired quantitative yield of specific particle sizes. As for the method of fusion in an inert filler (mixing of reduced Cu powder with CaCO₃ and heating of the mixture to 1200°C), it produces a 100% yield of spherical particles of a nearly uniform size. An investigation of the process of powder-metal forming utilizing spherical particles of this kind has shown that pressing results in products of the desired porosity, but involves deformation of particles. For freely poured powder residual porosity is 40-50%. Vibration compacting serves to reduce porosity to 35% and is particularly effective in the fabrication of thin-walled intricate shapes. The vibration compacting of different particle sizes involves different regimes of frequency and amplitude. The process of vibration compacting may be intensified by applying small static loads. An investigation of the materials obtained by sintering powders at 1000°C following the addition of 0.3% phosphorus has shown that their strength characteristics are independent of the method of powder production (plasma-jet atomization or fusion in inert filler). Bending strength was found to be dependent on particle size, increasing from 35 to 55 kg/mm² with decrease in particle size from 0.3 to 0.05 mm. Orig. art. has: 5 figures and 5 tables.

SUB CODE: 11, 13/ SUBM DATE: 08May65/ ORIG REF: 011/ OTH REF: 001

card 2/2 egh

KOPELEVICH, Aron Markovich; SLEPTSOVA, Ye., red.

[Making use of small-scale mechanization in construction]
Ispol'zovanie sredstv maloi mekhanizatsii v stroitel'stve.
Minsk, Belarus', 1964. 69 p. (MIRA 18:6)

DMITROVICH, Aleksandr Dem'yanovich; SLEPTSOVA, Ye., red.; DOMOVSKAYA, G., tekhn. red.; STEPANOVA, N., tekhn. red.

[Heat-insulation properties of building materials and elements]

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TITLE:

Synthesis and Polymerization of N-Acylamides of the

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ABSTRACT:

Synthesis and polymerization of N-acetylmethacrylamide (I) and N-acetyl- α -fluoroacrylamide (II) were studied. I and II were obtained as follows:

 $CH_2=C(R)CONH_2+(CH_3CO)_2O\rightarrow CH_2=C(R)CONHCOCH_3+CH_3COOH,$

where $R = CH_3$, F.

The reaction takes place at $142-145^{\circ}$ in the presence of catalyst acetyl chloride. To prevent polymerization, small amounts of pyrogallol and copper drillings are added. I is a colorless liquid, bp 82° (2 mm), 47%

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